Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	28	("20020016158"|"20020075971"|"20020136178"|"4159518"|"4313215"|"5384547"|"5402500"|"6014366"|"6028884"|"6484017"|"6621368"|"6662001"|"6757324").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 11:39
L3	4	("5974040"|"6282231").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 11:39
L4	2	(dynamic adj range) with reduce$1 with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 12:00
L5	1	((dynamic adj range) with reduce$1 with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 12:00
S1	0	"00001024179693"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/19 12:35
S2	1	"09/991500"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/19 12:35
S3	0	super with heterodyne with ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:05
S4	1756	super with heterodyne	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:05

S5	0	super with heterodyne same ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:05
S6	13	super with heterodyne and ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:07
S7	676	(dynamic with range) and ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:08
S8	646	(dynamic adj range) and ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:08
S9	75	(dynamic adj range) with ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:08
S10	27	(dynamic adj range) with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:09
S11	10	(dynamic adj range) with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 11:34
S12	3	(dynamic adj range) with reduce$1 with ((multi adj carrier) or multicarrier or multi-carrier) and (IF or (intermediate adj frequency)) and (A/D or (analog adj to adj digital))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 11:58

S13	2	"20030072393".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:15
S14	2	"5396519".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 09:15
S15	19	((dynamic adj range) with reduce$1) with ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:29
S16	3148	375/316	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:29
S17	2155	375/350	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:29
S18	6891	((dynamic adj range) with reduce$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:29
S19	5666	16and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:30
S20	62	S18 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:30

S21	51	S18 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:31
S22	19	(dynamic adj range) with reduce$1 with ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:31
S23	122	(dynamic adj range) with reduce$1 and ((multi adj carrier) or multicarrier or multi-carrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:31
S24	11	S23 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:33
S25	9	S23 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/02 10:31

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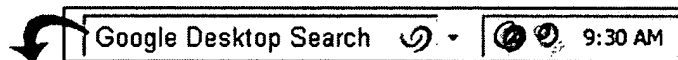
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☐ **3.** Bat Detectors [27K]
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...incorporating a broad-band facility into a tuned super-het bat detector.
Amplitude modulation of a **carrier** at the **intermediate frequency**, by a
suitable rectangular waveform will produce a comb spectrum with the
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Vehicular Technology Conference, 1996. 'Mobile Technology for the Human Race'., IEEI
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Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications

Current research on wireless RF transceivers empahsizes both higher integration and the ability to adapt to multiple communication standards. Higher integration can be obtained by using receiver architectures, such as wideband IF with double conversion (WIF), that perform channel select filtering on-chip at baseband. Performing this baseband channel select filtering in the digital domain allows for the programmability necessary to adapt to the different channel banwidths, sampling rates, and CNR requirements of multiple communication standards. At the back end of a wide-dynamic range sigma-delta modulator,a decimation filter can select a desired channel in the presence of both strong adjacent channel interferers and quantization noise from the digitization process.

The focus of this project is to design a power-optimized decimation filter that demonstrates the ability to perform digital channel select filtering for both the GSM (cellular) and DECT (cordless) standards. Automatic gain control is used within the filter to reduce the dynamic range and therefore the power consumption. The filter adapts to the different standards by using a technique in which portions of the circut are powered down in each mode. This adjusts the frequency response and saves additional power consumption.

My advisor is Paul Gray at the University of California at Berkeley.

Slides

- C. Barrett "Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications," (PDF), October 1997. NEW!

- C. Barrett "Low-Power Decimation Filter for Multi-Standard Transceiver Applications," (GIF/MIF/PS), March 1997.

Thesis

- Carol Barrett "Low-Power Decimation Filter Design for Multi-Standard Transceiver Applications," (PDF), December 1997. NEW!

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